

WHAT IS CLAIMED IS:

Sub A1

1. A graphical user interface for displaying a menu on a display screen on the basis of a predefined manipulation of an input device, comprising:
 - 3 input device monitoring means for monitoring at least one of a location and an actuation state of the input device; and
 - 5 display control means for displaying a selected menu of a plurality of menus on the basis of at least one of:
 - 7 a number of consecutive actuations of the input device in a predetermined time interval; and
 - 9 a duration time of an actuation of the input device.
2. A graphical user interface for displaying a menu on the display screen on the basis of a predefined manipulation of an input device, comprising:
 - 3 menu item management means for selecting and arranging items displayed in each one of a plurality of menus;
 - 5 receiving means for receiving an event alert message responsive to a predefined manipulation of an input device; and
 - 7 display control means for displaying a selected said menu on the basis of a predefined number of event alert messages received within a predetermined time interval, said display control means including at least one of an event alert counter and an event alert timer, said event alert counter counting a number of event alert

11 messages received and said event alert timer timing a duration time of an actuation of
A1 12 the input device.

1 *Sub B1* 3. A graphical user interface according to claim 2, wherein a cursor
2 location parameter IPParam, corresponding to a position of the input device, is
3 transmitted with each said event alert message,

4 said display control means verifying whether a difference between a first
5 IPParam, corresponding to the location of the cursor when a first event alert message is
6 generated, is within a predefined distance D of a second IPParam corresponding to the
7 location of the cursor when a second event alert message is generated;

8 wherein said event alert counter and said event alert timer are reset to
9 zero and said first and second event alert messages are not considered related events if
10 said difference exceeds said predefined distance D.

15 *Sub A2* 4. A graphical user interface for displaying a menu on a display
1 screen and positioning a cursor on a particular portion of the menu on the basis of a
2 predefined manipulation of an input device, the menu including a plurality of menu
3 elements or commands which are grouped in a predefined manner, said graphical user
4 interface comprising:
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6 input device monitoring means for monitoring at least one of a location
7 and an actuation state of the input device; and

8 display control means for displaying the menu in response to a first
9 ~~A2~~ actuation of the input device, the menu being divided into a predetermined number of
10 regions, each said region corresponding to a particular group of menu elements;
11 wherein said display control means positions the cursor on a selected
12 said region of the menu on the basis of at least one of:
13 a number of consecutive actuations of an input device in a
14 predetermined time interval; and
15 a duration time of an actuation of the input device.

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5. A graphical user interface according to claim 4, wherein:
said input device monitoring means receives predefined event alert
messages in response to a predefined manipulation of an input device; and
said display control means positions the cursor on a selected said region
of the menu on the basis of a predefined number of event alert messages received
within a predetermined time interval.

1 6. A graphical user interface according to claim 5, wherein a cursor
2 location parameter IPParam, corresponding to a position of the input device, is
3 transmitted with each said event alert message,
4 said display control means includes at least one of an event alert counter
5 and an event alert timer, said event alert counter counting a number of event alert

6 messages received, and said event alert counter timing a duration time of an actuation
7 of the input device,

8 said display control means verifying whether a difference between a first
9 IParam, corresponding to the location of the cursor when a first event alert message is
10 generated, is within a predefined distance D of a second IParam corresponding to the
11 location of the cursor when a second event alert message is generated;

12 wherein said event alert counter and said event alert timer are reset to
13 zero and said first and second event alert messages are not considered related events if
14 said difference exceeds said predefined distance D.

7. A computer system for displaying a selected menu on a display basis of manipulation of an input device, comprising:

receiving means for receiving an event alert message from an operating system, said event alert message alerting the occurrence of a particular manipulation of an input device; and

6 display control means for displaying a selected said menu on the basis of
7 one of: a duration time of said particular manipulation calculated as a time difference
8 between receipt of a first event alert message and receipt of a second event alert
9 message, and a number of event alert messages received in a predetermined time
10 interval

8. A computer system according to claim 7, further comprising management means for selecting and arranging items displayed in each one of menus.

9. A computer system according to claim 7, wherein a cursor meter IParam is transmitted with each of said first and second event alert id cursor location parameter IParam including coordinates of a cursor location of an event alert message;

said display control means includes at least one of an event alert counter alert timer, said event alert counter counting a number of event alert received, and said event alert counter timing a duration time of an actuation device;

said display control means verifying whether a difference between a first corresponding to the location of the cursor when said first event alert message is within a predefined distance D of a second IPParam corresponding to of the cursor when said second event alert message is generated;

wherein said event alert counter and said event alert timer are reset to 0 if first and second event alert messages are not considered related events if distance exceeds said predefined distance D.

1 *Sub A4* 10. A computer readable storage medium storing a computer program
2 for displaying a menu on the display screen of computer on the basis of manipulation
3 of an input device, comprising:

4 program code means responsive to an event alert message from an
5 operating system of a computer upon a particular manipulation of an input device; and
6 program code means for displaying a selected menu on the basis of one
7 of: the number of event alert message received within a predetermined time interval
8 and a duration time corresponding to an actuation of said input device calculated as a
9 difference between receipt of a first event alert message and receipt of a second event
10 alert message.

1 *Sub B1* 11. A computer readable storage medium according to claim 10, wherein
2 said computer program further comprises menu item management means for selecting and
3 arranging items displayed in each one of a plurality of menus.

1 12. A computer readable storage medium according to claim 10, wherein
2 a cursor location parameter IParam is transmitted with each of said first and second event
3 alert messages, said location parameter IParam includes coordinates of a cursor
4 corresponding to a position of the input device;
5 said display control means includes at least one of an event alert counter
6 and an event alert timer, said event alert counter counting a number of event alert

7 messages received, and said event alert counter timing a duration time of an actuation of
8 the input device;

9 said display control means verifying whether a difference between a first
10 IParam, corresponding to the location of the cursor when said first event alert message
11 is generated, is within a predefined distance D of a second IParam corresponding to the
12 location of the cursor when said second event alert message is generated;

13 wherein said event alert counter and said event alert timer are reset to zero
14 and said first and second event alert messages are not considered related events if said
15 difference exceeds said predefined distance D.